

# PEER-BASED LOCATION DETERMINATION

## ABSTRACT OF THE DISCLOSURE

5           Sensing devices are provided within a system, and these sensing devices are used to  
determine the location of emanating devices. Collocating the sensing devices with the emanating  
devices allows for a determination of a relative location of each emanating device, relative to  
each other emanating device, thereby obviating the need to obtain absolute locations of each  
emanating device. Given the location of each device, one or more aspects of the system are  
10       adjusted to improve system performance. In an audio system, the configuration and placement of  
loudspeakers can be adjusted to provide a proper acoustic balance. In a wireless system, the  
configuration and placement of base stations can be adjusted to prevent gaps in coverage. The  
relative location of a target emanation can also be determined, and the system can be adjusted to  
optimize the performance of the system relative to the location of the target emanation.